Clarion

Owner's manual
使用说明书
사용 설명서

DXZ846MC

AM/FM CD/MP3/WMA/MUSIC CATCHER PLAYER

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AM/FM CD/MP3/WMA/MUSIC CATCHER播放器

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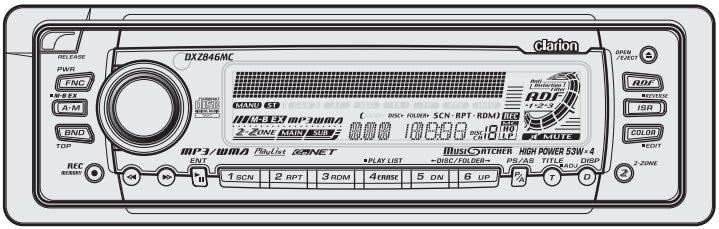
AM/FM CD/MP3/WMA/뮤직 캐처 플레이어



COMPACT disc DIGITAL AUDIO TEXT

Plays Windows Media™

English

Thank you for purchasing this **Clarion** product.

* Please read this owner's manual in its entirety before operating this equipment.
* After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
* Check the contents of the enclosed warranty card and keep it carefully with this manual.
* This manual includes the operating procedures of the CD changer and TV tuner connected via the CeNET cable. The CD changer and TV tuner have their own manuals, but no explanations for operating them are described.

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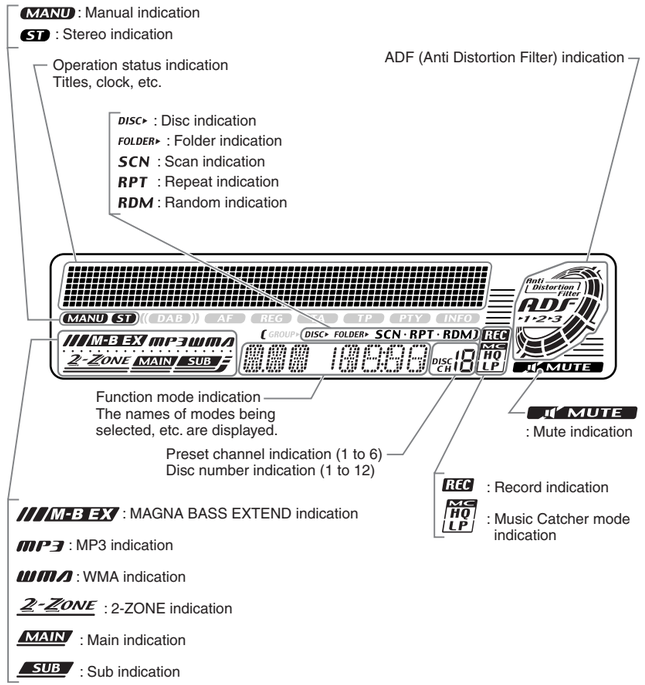
1. FEATURES

- MUSIC CATCHER for recording CDDA
- MP3 and WMA File Playable with ID3-TAG and WMA-TAG Display
- Motorized Sloping Console Detachable Faceplate in Aluminium with 80-Variable Color LCD and Control Buttons
- ADF (Anti Distortion Filter)
- 6ch RCA output and 2ch AUX input with 3 level adjustments
- Retractable Rotary Volume for Easy Operation

Display Items


MANU : Manual indication
ST : Stereo indication
Operation status indication
Titles, clock, etc.
ADF (Anti Distortion Filter) indication
DISC : Disc indication
FOLDER : Folder indication
SCN : Scan indication
RPT : Repeat indication
RDM : Random indication
Function mode indication
The names of modes being selected, etc. are displayed.
Preset channel indication (1 to 6)
Disc number indication (1 to 12)
MUTE : Mute indication
REC : Record indication
MC HQ LP : Music Catcher mode indication
M-B EX : MAGNA BASS EXTEND indication
MP3 : MP3 indication
WMA : WMA indication
2-ZONE : 2-ZONE indication
MAIN : Main indication
SUB : Sub indication

LCD Screen

In extreme cold, the screen movement may slow down and the screen may darken, but this is normal. The screen will recover when it returns to normal temperature.

2. PRECAUTIONS

1. When the inside of the car is very cold and the player is used soon after switching on the heater moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

⚠CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER and MINI DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY.

Sloping Console

This unit uses sloping console to make large-screen displays possible.

When you use the sloping console, be sure to close it.

⚠CAUTION

BE CAREFUL NOT TO GET YOUR FINGERS CAUGHT WHEN OPENING AND CLOSING THE SLOPING CONSOLE.

1. For safety's sake, always close the SLOPING CONSOLE before leaving this unit unused for a prolonged period or switching OFF the ignition key.

   If you switch OFF the ignition key with the SLOPING CONSOLE tilted, the SLOPING CONSOLE does not close.
2. Before the SLOPING CONSOLE closes, there may be a braking sound from the safety mechanism. This is normal.
3. If you move the SLOPING CONSOLE by hand, this may create play. To correct this play, with the power on for the unit, press the [⏏] button to close the SLOPING CONSOLE.
4. After a disc is ejected, the SLOPING CONSOLE automatically returns to the tilted or closed state. If there is any obstruction when the SLOPING CONSOLE tries to close, the safety mechanism is triggered and the SLOPING CONSOLE returns to the open state. If this happens, remove the obstruction, then press the [⏏] button.
5. To avoid scratching the compact disk, keep the 12 or 8 cm CD level when inserting or removing them.

Handling Compact Discs

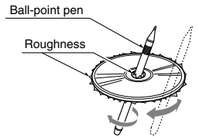
Use only compact discs bearing the COMPACT disc DIGITAL AUDIO or COMPACT disc DIGITAL VIDEO mark.

Do not play heart-shaped, octagonal, or other specially shaped compact discs.

Some CDs recorded in CD-R/CD-RW mode may not be usable.

Handling

- Compared to ordinary music CDs, CD-R and CD-RW discs are both easily affected by high temperature and humidity and some of CD-R and CD-RW discs may not be played. Therefore, do not leave them for a long time in the car.
- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



- Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.
- Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it may damage the CD player.
- Do not use compact discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose compact discs to direct sunlight or any heat source.
- Do not expose compact discs to excess humidity or dust.
- Do not expose compact discs to direct heat from heaters.

Cleaning

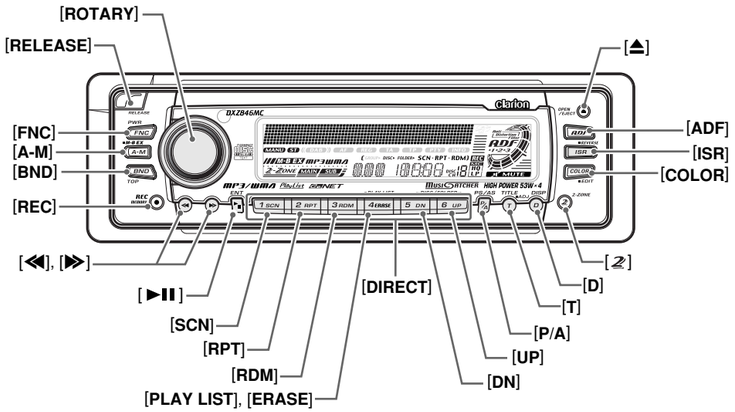
- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the compact disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.
- After using special compact disc cleaner, let the compact disc dry off well before playing it.

Be sure to unfold and read the next page. / ***务必打开并阅读下一页。***
이 페이지를 펼친 채로 다음 페이지를 읽어 주십시오.

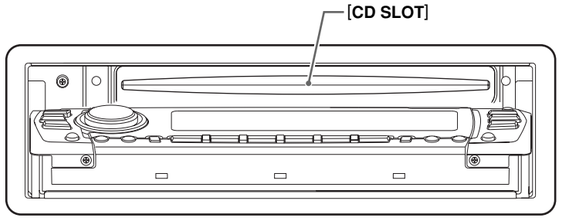
English
中文
한국어

3.CONTROLS / 控制键 / 컨트롤

Source unit / 主机 / 본체



With the SLOPING CONSOLE opened / 在翻开式面板打开时 / 슬로핑 콘솔이 열린 상태



Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter.
注意：请务必打开此页，并在阅读每一章节时参照上面的正视图。
주: 이 페이지를 펼쳐두고, 각 장을 읽을 때 전면 그림을 참조하십시오.

English

4. NOMENCLATURE

Note:
- *Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*
- *MC is the abbreviation of MUSIC CATCHER.*
- *ADF is the abbreviation of Anti Distortion Filter.*

Names of the Buttons and their Functions

[RELEASE] button
- Deeply push in the button to unlock the DCP.

[ROTARY] knob
- Adjust the volume by turning the knob clockwise or counterclockwise.
- Use the knob to perform various settings.

[⏏] button
- Press to eject a CD loaded in the unit.
- Press to open the CD slot and insert a CD.

[ADF] button
- Use the button to select one of the 3 types of sound characteristics already stored in memory.

[ISR] button
- Recall ISR radio station in memory.
- Press and hold for 2 seconds or longer: Store current station into ISR memory (radio mode only).
- Press and hold the button for 1 second or longer to switch the main and sub zone sound source. (only while 2-ZONE mode on)

[COLOR] button
- Button's color change to multicolor.

[2] button
- Press and hold for 1 second or longer to turn on or off the 2-ZONE mode.
- Press to switch the control zone between main zone or sub zone while 2-ZONE mode on.

[D] button
- Switch the display indication (Main display, Clock display).

[T] button
- Use the button to input a title in the Radio, CD mode.
- Press and hold the button for 1 second or longer to enter the adjust mode.

[P/A] button
- Perform preset scan while in the radio mode. When the button is pressed and held, auto store is performed.

[UP], [DN] buttons
- Select the Folder. (MP3/WMA disc MC mode only)

[DIRECT] buttons
- Store a station into memory or recall it directly while in the radio mode.

[PLAY LIST], [ERASE] button
- Press and hold for 1 second or longer to turn on or off the play list mode. (MP3/WMA disc only)
- This functions as the [**ERASE**] button in the M.CATCHER mode. Each time you press the button, the function switches in the following order: FILE ERASE ➜ FLD ERASE ➜ Normal mode.
- Press and hold the button for 2 seconds or longer, and the unit enters the ALL ERASE mode.

[RDM] button
- Perform random play while in the CD/MP3, MC mode.
- Press and hold the button for 1 second or longer to perform folder random play while in the MP3/WMA disc, MC mode.

[RPT] button
- Repeat play while in the CD/MP3, MC mode.
- Press and hold the button for 1 second or longer to perform folder repeat play while in the MP3/WMA disc, MC mode.

[SCN] button
- Perform scan play for 10 seconds of each track while in the CD/MP3, MC mode.
- Press and hold the button for 1 second or longer to perform folder scan play while in the MP3/WMA disc, MC mode.

[▶II] button
- Play or pause a CD while in the CD/MP3, MC mode.
- Press and hold the [▶II] button for 2 seconds or longer after selecting the ERASE mode, and the track is erased.

[◀◀], [▶▶] buttons
- Select a station while in the radio mode or select a track when listening to a CD/MP3, MC mode. These buttons are used to make various settings.
- Press and hold the button for 1 second or longer to switch the fast-forward/fast-backward.

[REC] button
- Press the button during CD playback, and the track currently being played back is recorded onto MC. (TRACK REC)
- Press and hold the button for 2 seconds or longer during CD playback, and all tracks are recorded onto MC. (DISC REC)

[BND] button
- Switch the band, or seek tuning or manual tuning

English

while in the radio mode.
- Play a first track while in the CD/MP3, MC mode.

[A-M] button
- Use the button to switch to the audio mode (SW-VOL, bass/treble, balance/fader)
- Press and hold for 1 second or longer to turn on or off the MAGNA BASS EXTENED.

[FNC] button
- Press the button to turn on the power. Press and hold the button for 1second or longer to turn off the power.
- Switch the operation mode among the radio mode, etc.

[CD SLOT]
- CD insertion slot.

Major Button Operations When External Equipment is Connected to This Unit

●When the CD/DVD changer is connected

∗ For details, see the section "**CD changer operations**". For the DVD changer, refer to the Owner's Manual provided with the DVD changer.

[D] button
- When the button is pressed and held, switches the user titles or track titles, etc. while in the CD changer mode.

[T] button
- Use the button to input a title in the CD changer mode.
- Use the button to scroll the title during CD-text play.

[UP], [DN] buttons
- Select the disc.

[RDM] button
- Perform random play. Also perform disc random play when the button is pressed and held.

[RPT] button
- Perform repeat play. When this button is pressed and held, disc repeat play is performed.

[SCN] button
- Perform scan play for 10 seconds of each track. Disc scan play is performed when the button is pressed and held.

[▶II] button
- Play or pause a CD or DVD.

[◀◀], [▶▶] buttons
- Select a track when listening to a disc.
- Press and hold the button for 1 second or longer to switch the fast-forward/fast-backward.

[BND] button
- Move the next disc in increasing order.

●When the TV is connected

∗ For details, see the section "**TV operations**".

[P/A] button
- Perform preset scan while in the TV mode. When the button is pressed and held, auto store is performed.

[DIRECT] buttons
- Store a station into memory or recall it directly.

[▶II] button
- Switch the TV picture mode or VTR (external) picture mode.

[◀◀], [▶▶] buttons
- Select a station.

[BND] button
- Switch the band.
- When the button is pressed and held, switch seek tuning or manual mode.

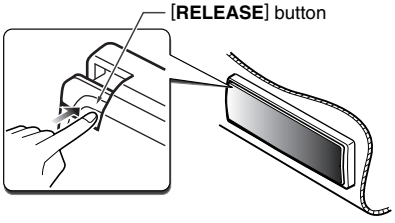
5. DCP

The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (DETACHABLE CONTROL PANEL) case to prevent scratches.

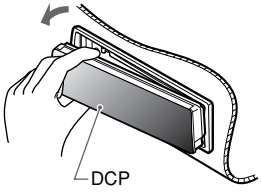
We recommend taking the DCP with you when leaving the car.

Removing the DCP

1. With the SLOPING CONSOLE closed, turn off the power.
2. Press the [**RELEASE**] button deeply to open the DCP.



3. Pull the DCP toward you and remove it.

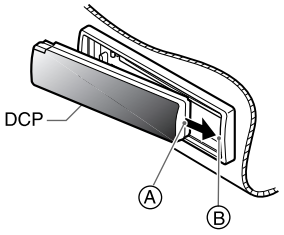


⚠CAUTION

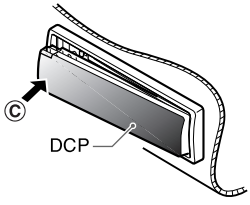
- **Always close the SLOPING CONSOLE before removing the DCP.**
- **If you remove the DCP with the SLOPING CONSOLE open, the sloping console closes immediately. Be careful not to get your fingers caught.**

Attaching the DCP

1. Insert the DCP so that the Ⓐ section on the right side of the DCP catches on the hook Ⓑ on the unit.



2. Press the left side Ⓒ of the DCP carefully to fit it in place.



⚠CAUTION

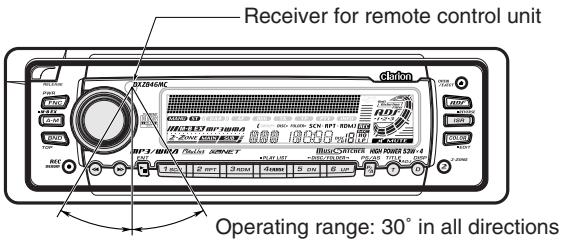
- **The DCP can easily be damaged by shocks. After removing it, be careful not to drop it or subject it to strong shocks.**
- **If the [RELEASE] button is pressed and the DCP is not locked into place, it may fall out from vibration of the car. This can break the DCP, so after removing it, either install it on the unit or put it in its DCP case.**
- **The connector connecting the unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, screwdrivers, etc.**

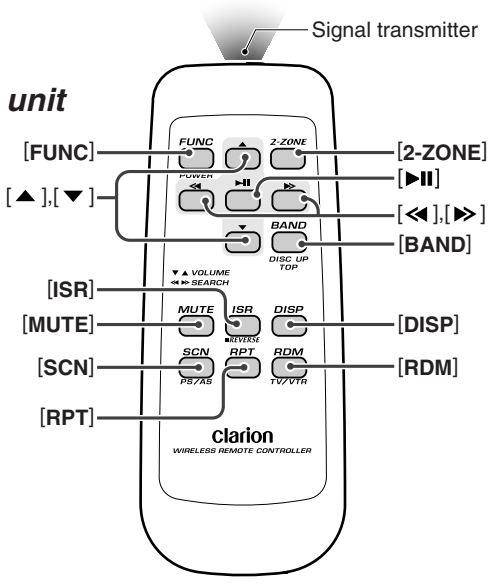
Note:

- *If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.*

English

6. REMOTE CONTROL





Remote control unit

Inserting the Batteries

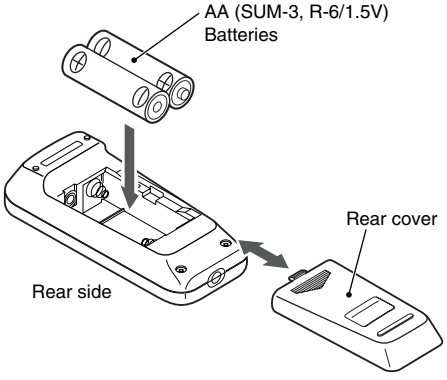
1.Turn the remote control unit over, then slide the rear cover in the direction of the arrow.

2.Insert the AA (SUM-3, R-6/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.

Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- *When replacing batteries, replace both batteries with new ones.*
- *Do not short-circuit, disassemble or heat batteries.*
- *Do not dispose of batteries into fire or flames.*
- *Dispose of spent batteries properly.*



Functions of Remote Control Unit Buttons

Mode / Button	Radio	CD/MP3/ M.CATCHER	CD changer DVD changer	TV
[**FUNC**]	Switches among radio, CD/MP3, MC, CD changer, DVD changer, TV and AUX.			
[**BAND**]	Switches reception band.	Plays the first track. Top play.	Moves the next disc in increasing order.	Switches reception band.
[▲] , [▼]	Increases and decreases volume (in all modes).			
[⏪] , [⏩]	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second or longer: Fast-forward/fast-backward.		Moves preset channels up and down.
[▶❚❚]	No function.	Switches between playback and pause.		No function.
[**MUTE**]	Turns mute on and off.			
[**ISR**]	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only). Press and hold the button for 1 second or longer to switch the main and sub zone sound source.(only while 2-ZONE mode on)			
[**DISP**]	Switches among main display, clock display.			
[**SCN**]	Preset scan. When pressed and held for 2 seconds or longer: Auto store.	Scan play. Press and hold the button for 1 second or longer to perform folder scan play while in the MP3/WMA disc, MC mode.	Scan play. When pressed and held for 1 second or longer: Disc scan play.	Preset scan. When pressed and held for 2 seconds or longer: Auto store.
[**RPT**]	No function.	Repeat play. Press and hold the button for 1 second or longer to perform folder Repeat play while in the MP3/ WMA disc, MC mode.	Repeat play. When pressed and held for 1 second or longer: Disc repeat play.	No function.
[**RDM**]	No function.	Random play. Press and hold the button for 1 second or longer to perform folder Random play while in the MP3/ WMA disc, MC mode.	Random play. When pressed and held for 1 second or longer: Disc random play.	Switches between TV and VTR.
[**2-ZONE**]	Press and hold for 1 second or longer to turn on or off the 2-ZONE mode. Press to switch the control zone between main zone or sub zone while 2-ZONE mode on.			

∗ Some of the corresponding buttons on the main unit and remote control unit have different functions.

English

7. OPERATIONS

Basic Operations

Note: *Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*

⚠CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

Turning on/off the power

Note:

- *Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.*

1. Press the [**FNC**] button.
2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
3. Press and hold the [**FNC**] button for 1 second or longer to turn off the power for the unit.

Note:

- *System check*
  *The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, "**SYSTEM CHCK**" and "**Push POWER**" appear in the display alternately, so press the [**FNC**] button. The system check starts within the unit. When the system check is complete, press the [**FNC**] button again.*

Selecting a mode

1. Press the [**FNC**] button to change the operation mode.
2. Each time you press the [**FNC**] button, the operation mode changes in the following order:

   Radio mode ➜ CD/MP3 mode ➜ M.CATCHER mode ➜ CD changer mode ➜ DVD changer mode ➜ TV mode ➜ AUX mode ➜ Radio mode...

   ∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

1. Press the front part of the [**ROTARY**] knob. The knob will pop up.
2. Turn the [**ROTARY**] knob clockwise increases the volume; turning it counterclockwise decreases the volume.

   ∗ The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

1. Press the [**D**] button to select the desired display.
2. Each time you press the [**D**] button, the display switches in the following order:

   Main display ➜ Clock display ➜ Main display ...

   ∗ Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

   ∗ When you have entered a title in a CD/MP3/WMA, it appears in the main display. If you have not entered a title, "**NO TITLE**" appears in the title display instead. For information on how to enter a title, refer to the subsection "**Entering titles**" in section "**Operations Common to Each Mode**".

Setting MAGNA BASS EXTEND

The MAGNA BASS EXTEND does not adjust the low sound area like the normal sound adjustment function, but emphasizes the deep bass sound area to provide you with a dynamic sound.

∗ The factory default setting is off.

1. Press and hold the [**A-M**] button for 1 second or longer to turn on the MAGNA BASS EXTEND effect. "**M-B EX**" lights in the display.
2. Press and hold the [**A-M**] button for 1 second or longer to turn off the MAGNA BASS EXTEND effect. "**M-B EX**" goes off from the display.

Note:

- *When "**ADF-1**", "**ADF-2**" or "**ADF-3**" is selected for ADF (Anti Distortion Filter), setting of MAGNA BASS EX cannot be performed.*

Setting the Anti Distortion Filter

The adopted "**Liveliness Enhancement Filter**" and "**Sound Tone Compensation**" functions allow well-modulated realistic playback without affecting the characteristics of the original sound tone.

This unit are provided with 3 types of sound tone effects stored in memory. Select the one you prefer.

∗ The factory default setting is "**ADF OFF**".

Each time you press the [**ADF**] button, the tone effect changes in the following order:

"ADF-1" ➜ "ADF-2" ➜ "ADF-3" ➜ "ADF OFF" ...

- ADF-1 : suitable for the genuine speakers
- ADF-2 : suitable for separate speakers
- ADF-3 : suitable for coaxial speakers
- ADF OFF : no sound effect

Notes:

- *The volume changes each time the ADF (Anti Distortion Filter) setting is switched. Turn down the volume and the sub-woofer volume before performing a switching operation.*
- *Sufficient effects cannot be obtained with some speaker systems. In such cases, adjust the volume.*

Adjusting the tone

Press the [**A-M**] button and select the item to adjust. Each time you press the [**A-M**] button, the item changes as following order:

● **When "ADF 1, 2, 3" is set**

"SW-VOL 0" ➜ "BALANCE 0" ➜ "FADER 0" ➜ Last function mode.

● **When "ADF OFF" is set**

"SW-VOL 0" ➜ "BASS◂GAIN▸" ➜ "TREB◂GAIN▸" ➜ "BALANCE 0" ➜ "FADER 0" ➜ Last function mode.

Note:

- *As subwoofer is effective, "**SW-VOL 0**" can be selected.*

Adjusting the Subwoofer

∗ The factory default setting is "**SW-VOL 0**"

∗ This function can be adjusted only when the subwoofer output is set to "**ON**". For details on "**Selecting the Subwoofer**", refer to the section "**Operations Common to Each Mode**" of each owner's manual.

1. Press the [**A-M**] button, "**SW-VOL 0**" appears in the display.
2. Turn the [**ROTARY**] knob to select from –6 to +6.
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the bass (Gain, Frequency, Q-curve)

This adjustment can be performed when the ADF (Anti Distortion Filter) is set to "**ADF OFF**".

1. Press the [**A-M**] button and select "**BASS◂GAIN▸**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the bass; turning it counterclockwise attenuates the bass.

   ∗ The factory default setting is "**BASS◂G 0▸**". (Adjustment range: –6 to +8)
3. Press the [⏪] or [⏩] button to select "**BASS◂F 50▸**".

   Turn the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**BASS◂F 50▸**".(Adjustment 50/80/120 Hz)
4. Press the [⏪] or [⏩] button to select "**BASS◂Q 1▸**".

   Turn the [**ROTARY**] knob clockwise or counterclockwise to select the Q-curve.

   ∗ The factory default setting is "**BASS◂Q 1▸**". (Adjustment 1/1.25/1.5/2)
5. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the treble (Gain, Frequency)

This adjustment can be performed when the ADF (Anti Distortion Filter) is set to "**ADF OFF**".

1. Press the [**A-M**] button and select "**TREB◂GAIN▸**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the treble; turning it counterclockwise attenuates the treble.

   ∗ The factory default setting is "**TREB◂G 0▸**". (Adjustment range: –6 to +6)
3. Press the [⏪] or [⏩] button to select "**TREB◂F 12k▸**".

   Turn the [**ROTARY**] knob clockwise or counterclockwise to select the frequency.

   ∗ The factory default setting is "**TREB◂F 12k▸**". (Adjustment 8 kHz/12 kHz)

4. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the balance

1. Press the [**A-M**] button and select "**BALANCE 0**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.
   * The factory default setting is "**BALANCE 0**". (Adjustment range: L13 to R13)
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Adjusting the fader

1. Press the [**A-M**] button and select "**FADER 0**".
2. Turning the [**ROTARY**] knob clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.
   * The factory default setting is "**FADER 0**". (Adjustment range: F12 to R12)
3. When the adjustment is complete, press the [**A-M**] button several times until the function mode is reached.

Radio Operations

FM reception

For enhanced FM performance the MAGI·TUNE® tuner includes signal actuated stereo control, Enhanced Multi AGC, Impulse noise reduction curcuits and Multipath noise reduction circuits.

Listening to the radio

1. Press the [**FNC**] button and select the radio mode. The frequency appears in the display.
2. Press the [**BND**] button and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:

   FM1 ➜ FM2 ➜ FM3 ➜ AM ➜ FM1...
3. Press the [◀◀] or [▶▶] button to tune in the desired station.

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press the [**BND**] button and select the desired band (FM or AM).
   * If "**MANU**" is lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press the [◀◀] or [▶▶] button to automatically seek a station.

   When the [▶▶] button is pressed, the station is sought in the direction of higher frequencies; if the [◀◀] button is pressed, the station is sought in the direction of lower frequencies.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the quick tuning mode, you can quickly tune the desired frequency.

1. Press the [**BND**] button and select the desired band (FM or AM).
   * If "**MANU**" is not lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" is lit in the display and manual tuning is now available.

2. Tune into a station.

● **Quick tuning:**

Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

● **Step tuning:**

Press the [◀◀] or [▶▶] button to manually tune in a station.

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding [**DIRECT**] button recalls the stored radio frequency automatically.

1. Press the [**BND**] button and select the desired band (FM or AM).
2. Press the corresponding [**DIRECT**] button to recall the stored station.
   * Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store that station into preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 receivable stations cannot be received, a previously stored station remains unoverwritten at the memory position.

1. Press the [**BND**] button and select the desired band (FM or AM).
2. Press and hold the [**P**/**A**] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press the [**P**/**A**] button.
2. When a desired station is tuned in, press the [**P**/**A**] button again to continue receiving that station.

Note:

*• Be careful not to press and hold the [**P**/**A**] button for 2 seconds or longer, otherwise the auto store function is engaged and the unit starts storing stations.*

Instant station recall (ISR)

Instant station recall is a special radio preset that instantly accesses a favorite radio station at a touch of a button. The ISR function even operates with the unit in other modes.

● **ISR memory**

1. Select the station that you wish to store in ISR memory.
2. Press and hold the [**ISR**] button for 2 seconds or longer.

● **Recalling a station with ISR**

In any mode, press the [**ISR**] button to turn on the radio function and tune the selected radio station. "**ISR**" appears in the display. Press the [**ISR**] button again to return to the previous mode.

CD/MP3/WMA Operations

MP3/WMA

What is MP3?

MP3 is an audio compression method and classified into audio layer 3 of MPEG standards. This audio compression method has penetrated into PC users and become a standard format.

This MP3 features the original audio data compression to about 10 percent of its initial size with a high sound quality. This means that about 10 music CDs can be recorded on a CD-R disc or CD-RW disc to allow a long listening time without having to change CDs.

What is WMA?

WMA is the abbreviation of Windows Media Audio, an audio file format developed by Microsoft Corporation.

Notes:

- *If you play a file with DRM (Digital Rights Management) for WMA remaining ON, no audio is output. (The WMA indicator blinks.)*
- *Windows Media™, and the Windows ® logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*

● To disable DRM (Digital Rights Management):

1. When using Windows Media Player 8, click on TOOLS ➜ OPTIONS ➜ COPY MUSIC tab, then under COPY SETTINGS, unclick the check box for PROTECT CONTENT. Then, reconstruct files.
2. When using Windows Media Player 9, click on TOOL ➜ OPTIONS ➜ MUSIC RECORD tab, then under Recording settings, unclick the Check box for RECORD PROTECTED MUSIC. Then, reconstruct files.

   Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3/WMA disc

● Usable sampling rates and bit rates:

1. MP3: Sampling rate 11.025 kHz-48 kHz, Bit rate: 8 kbps-320 kbps / VBR
2. WMA: Bit rate 48 kbps-192 kbps

● File extensions

1. Always add a file extension "**.MP3**" or "**.WMA**" to MP3 or WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension , the file cannot be played.
2. Files without MP3/WMA data will not play. The indication "**––:––**" appears in the play time display if you attempt to play files without MP3/WMA data.

● Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or JOLIET or Romeo" as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 128 single byte alphabetical letters and numerals (including an extension).
3. Do not affix a name to a file inside a folder having the same name.

● Folder structure

1. A disc with a folder having more than 8 hierarchical levels will be impossible.

● Number of files or folders

1. Up to 255 files can be recognized per folder. Up to 500 files can be played.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks might not always be played in the order displayed on the PC.)
3. Some noise may occur depending on the type of encoder software used while recording.

Multisession function

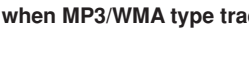
When a disc contains both normal CD type tracks and MP3/WMA type tracks mixedly, you can select which type of the recorded tracks to play.

● Default value is "CD".

Each time you press and hold the [**BND**] button for 1 second or longer, the mixed mode is switched between CD type or MP3/WMA type. The following indication appears in the title display when switching the track type to be played.

● Display when CD type track is selected:

● Display when MP3/WMA type track is selected:



1. Types of recording that can be played are as follows.

Disc \ Setting	Set to CD	Set to MP3/WMA
Mixed with CD and MP3/WMA type tracks	Play CD	Play MP3/WMA
CD type track only	Play CD	Play CD
MP3/WMA type track only	Play MP3/WMA	Play MP3/WMA

2. After making these settings, remove the disc and then reinsert it.
3. When a mixed mode CD is loaded and CD is set, the track to be played first is MP3/WMA file data and no sound is heard.

Note:

- *When playing a CCCD (Copy Control CD), set the setting to CD type. When this is set to MP3/WWA type, the CD cannot be played normally in some cases.*

Disc-In-Play function

As long as the ignition key is turned to the ON or ACC position, this function allows you to turn the power to the unit and start playing the disc automatically when the disc is inserted even if the power is not turned on.

Loading a CD

1. Press the [⏏] button. The SLOPING CONSOLE opens.
2. Insert a CD into the center of the CD SLOT with the label side facing up. The CD plays automatically after loading.

Notes:

- *Never insert foreign objects into the CD SLOT.*
- *If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.*
- *Discs not bearing the* COMPACT disc DIGITAL AUDIO *or* COMPACT disc DIGITAL AUDIO TEXT *mark and CD-ROMs cannot be played by this unit.*
- *Some CDs recorded in CD-R/CD-RW mode may not be usable.*

Loading 8 cm compact discs

∗ No adapter is required to play an 8 cm CD.

∗ Insert the 8 cm CD into the center of the insertion slot.

Backup Eject function

Just pressing the [⏏] button ejects the disc even if the power to the unit was not turned on.

1. Press the [⏏] button. Remove the disc after it is ejected.

Note:

- *Always close the sloping console after opening it or ejecting the CD.*

⚠CAUTION

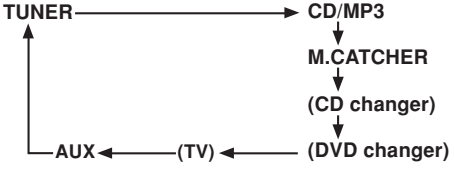
- **Be careful not to catch your hand or fingers while closing the SLOPING CONSOLE.**
- **Do not try to put your hand or fingers in the disc insertion slot. Also never insert foreign objects into the slot.**
- **Do not insert discs where adhesive comes out from cellophane tape or a rental CD label, or discs with marks where cellophane tape or rental CD labels were removed. It may be impossible to extract these discs from the unit and they may cause the unit to break down.**

Listening to a disc already loaded in the unit

Press the [**FNC**] button to select the CD/MP3 mode.

When the unit enters the CD/MP3 mode, play starts automatically.

If there is no disc loaded, the indication "***NO DISC***" appears in the title display.



∗ The mode changes each time the [**FNC**] button is pressed. (Modes are not displayed for equipment that is not connected.)

MUSIC CATCHER

In the M.CATCHER mode, the files recorded in the built-in flash memory are played back. Operations for listening to a recording made using MUSIC CATCHER are the same as "**CD/MP3/WMA Operations**". For operations for recoding using MUSIC CATCHER, refer to the section "**MUSIC CATCHER Operations**".

Pausing play

1. Press the [▶❚❚] button to pause play. "**PAUSE**" appears in the display.
2. To resume CD play, press the [▶❚❚] button again.

Displaying CD titles

This unit can display title data for CD-text/MP3/WMA disc and user titles input with this unit.

1. Press the [**D**] button to display the title.
2. Each time you press and hold the [**D**] button for 1 second or longer, the title display changes in the following order:

● CD-TEXT disc

User title (disc) ➜ CD-text title (disc) ➜ Artist name ➜ CD-text title (track) ➜ User title (disc)...

● MP3/WMA disc

Folder ➜ File ➜ Album TAG ➜ Artist TAG ➜ Title TAG ➜ Folder...

● M.CATCHER

Folder ↔ File

Notes:

- *If the CD playing is not a CD-text CD or no user title has been input, "**NO TITLE**" appears in the display.*
- *If MP3/WMA disc is not input TAG, "**NO TAG**" appears in the display.*
- *For MP3, supports ID3 Tags V2.3 / 2.2 / 1.1 / 1.0.*
- *Tag displays give priority to V2.3 / 2.2.*
- *In the case of album Tags for WMA, the information written into the extension header is displayed.*
- *Only ASCII characters can be displayed in Tags.*

Selecting a track

● Track-up

1. Press the [▶▶] button to move ahead to the beginning of the next track.
2. Each time you press the [▶▶] button, the track advances ahead to the beginning of the next track.

● Track-down

1. Press the [◀◀] button to move back to the beginning of the current track.
2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● Fast-forward

Press and hold the [▶▶] button for 1 second or longer.

● Fast-backward

Press and hold the [◀◀] button for 1 second or longer.

∗ For MP3/WMA discs, it takes some time until the start of searching and between tracks. In addition, the playing time may have a margin of error.

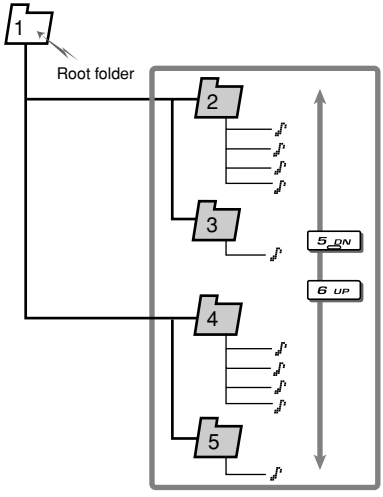
Folder Select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

1. Press the [**UP**] or [**DN**] button.

   Press the [**DN**] button to move to the previous folder.

   Press the [**UP**] button to move to the next folder.



   ∗ Press the [**UP**] button while in the final folder to shift to the first folder.

   ∗ Folder without an MP3/WMA file is not selectable.

2. To select a track, press the [◀◀] or [▶▶] button.

Top function

The top function resets the CD player to the first track of the disc. Press the [**BND**] button to play the first track (track No. 1) on the disc.

∗ In case of MP3/WMA, the first track of a folder being played will be returned.

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

1. Press the [**SCN**] button to perform scan play.

   The indication "**SCN**" lights up in the display, and "***TRK SCAN***" (or "***♪-SCAN***" when searching for a track in the MP3/WMA file) appears in the title display for about 2 seconds, then scan play starts.

   * Scan play starts from the next track after the track currently being played.

2. To cancel scan play, press the [**SCN**] button again.

   The play status indication such as "**SCN**" disappears from the display and the current track is played.

Folder scan play

This function allows you to locate and play the first 10 seconds of the first track of all the folders on an MP3/WMA disc.

1. Press and hold the [**SCN**] button for 1 second or longer to perform folder scan play.

   The indications "**FOLDER**" and "**SCN**" light up in the display and "***-SCAN***" appears for about 2 seconds in the title display, and then folder scan play starts.

   * Folder scan play starts from the next track after the track currently being played.

2. To cancel folder scan play, press the [**SCN**] button again.

   The play status indications such as "**FOLDER**" and "**SCN**" disappear from the display and the current track is played.

Repeat play

This function allows you to play the current track repeatedly.

1. Press the [**RPT**] button to perform repeat play.

   The indication "**RPT**" lights up in the display and "***TRK REPEAT***" (or "***♪-REPEAT***" when performing repeated play for a track in the MP3/WMA file) appears for about 2 seconds in the title display, and then repeat play starts.

2. To cancel repeat play, press the [**RPT**] button again.

   The play status display such as "**RPT**" disappears from the display and normal play resumes from the track currently being played.

Folder repeat play

This function allows you to play a track currently being played in the MP3/WMA folder repeatedly.

1. Press and hold the [**RPT**] button for 1 second or longer to perform folder repeat play.

   The indications "**FOLDER**" and "**RPT**" light up in the display and "***-REPEAT***" appears for about 2 seconds in the title display, and then folder repeat play starts.

2. To cancel folder repeat play, press the [**RPT**] button again.

   The play status indications such as "**FOLDER**" and "**RPT**" disappear from the display and normal play resumes from the track currently being played.

Random play

This function allows you to play all tracks recorded on a disc in a random order.

1. Press the [**RDM**] button to perform random play.

   The indication "**RDM**" lights up in the display and "***TRK RANDOM***" (or "***♪-RANDOM***" when performing random play for tracks on a MP3/WMA disc) appears in the title display for about 2 seconds, and then random play starts. The tracks on the disc are then played in a random order.

2. To cancel random play, press the [**RDM**] button again.

   The play status indication such as "**RDM**" disappears from the display and normal play resumes from the track currently being played.

Folder random play

This function allows you to play all the tracks of all the folders recorded on an MP3/WMA disc in a random order.

1. Press and hold the [**RDM**] button for 1 second or longer to perform folder random play.

   The indications "**FOLDER**" and "**RDM**" light up in the display and "***-RANDOM***" appear in the title display for about 2 seconds, and then folder random play starts.

2. To cancel folder random play, press the [**RDM**] button again.

   The play status indications such as "**FOLDER**" and "**RDM**" disappear from the display and normal play resumes from the track currently being played.

English

CD/MP3/WMA Operations

Play list mode

This function allows you to play tracks, up to latest 5 time stamps, by reading the play list information written on the disc.

1. Press and hold the [**PLAY LIST**] button for 1 second or longer to turn on or off the play list mode.
   - ∗ Play list play is possible only when there is a file whose extension is "**.M3U**" on the CD-R/RW.
   - ∗ Up to 5 play lists can be recognized, and up to 255 files can be recognized per play list.
2. Press the [◀◀] or [▶▶] button to change the track.
3. Press the [**DN**] button to move to the previous play list.

   Press the [**UP**] button to move to the next play list.

Notes:

- *The SCN/RPT/RDM functions cannot be used while in the play list mode.*
- *The title display changes from folder name to play list name.*

Making a play list

1. Write desired tracks to a CD-R/RW, etc. Be sure to use alphanumeric/ASCII characters for all file names.
2. Make a play list by using a multimedia player, etc. and save the data. The file format must be M3U.
3. Again, write this play list to the CD-R/RW, etc.

Notes:

- *When writing to a CD-R/RW, etc., be sure to use alphanumeric/ASCII characters.*
- *Up to 5 layers can be recognized as a list. For written play lists, latest 5 lists are recognized in the order in which they are written.*
- *When writing to a CD-R/RW, etc., turn off the Disc At Once function.*
- *When adding a play list, it is recommended to write it in the "**Root**" folder.*

MUSIC CATCHER Operations

Setting a recording mode

The recording mode for MUSIC CATCHER can be switched between the following 2 modes:

- HQ (High Quality) MODE: about 265 minutes
- LP (Long Play) MODE: about 353 minutes

∗ The factory default setting is "**HQ**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**MC-REC MODE**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**HQ**" or "**LP**".
4. Press the [**T**] button to return to the previous mode.

Notes on recoding using MUSIC CATCHER:

- Recording operations are to be performed in the CD/MP3 mode.
- Recordable media are CD-DAs only.
- Discs (CD-R/CD-RW) created by copying on a music recorder cannot be recorded.
- MP3/WMA discs cannot be recorded.
- Some CDs may show a subtractive time indication in the area between tracks when they are played back. A between-tracks area is not recorded in such a CD.
- In recording using MUSIC CATCHER, some amount of silent time is created between the tracks.
- If the disc contains some tracks that have been already recorded, the other tracks are recorded.
- Folder and file names are added automatically during recording. These folder and file names cannot be changed. (The file names correspond to the track Nos. on the CD.)
- If the disc is not recordable, "**NO REC DISC**" shows on the display.
- If the disc contains some tracks previously recorded, "**INCLUDED**" shows on the display.
- If there is no empty folder available, "**FOLDER FULL**" shows on the display.
- When the memory capacity is used up, "**MEMORY FULL**" shows on the display and recording is canceled.

- Recording cannot be performed during SCN, RPT, and RDM. In such cases, "**BUSY**" shows on the display.
- The [▶❚❚], [⏪], [⏩], [**BND**] and [**SCN**/**PRT**/**RDM**] buttons are invalid during recording. When these buttons are pressed, "**INVALID**" shows on the display.

Recording operation (REC function)

Recording using MUSIC CATCHER is performed in the CD/MP3 mode and the following 2 recording modes are available: "**TRACK REC**" to record only one track currently being played back and "**DISC REC**" to record all tracks on the CD.

●TRACK REC

1. Press the [**FNC**] button to select the CD/MP3 mode.
2. Play back a track to be recorded and press the [**REC**] button. Then, the "**REC**" indicator on the display and the [**REC**] button blink, "**TRACK REC**" shows on the title display for 2 seconds, and recording starts.
   ∗ When recording is complete, the "**REC**" indicator goes off and "**REC DONE**" shows on the display for 2 seconds.

●DISC REC

1. Press the [**FNC**] button to select the CD/MP3 mode.
2. Play back a CD to be recorded and press and hold the [**REC**] button for 2 seconds or longer. Then, the "**REC**" indicator on the display and the [**REC**] button blink, "**DISC REC**" shows on the display for 2 seconds, and recording starts.
   ∗ When recording is complete, the "**REC**" indicator goes off and "**REC DONE**" shows on the display for 2 seconds.

Canceling recording

1. To suspend recording, press the [**REC**] button again. Then, recording is canceled.
   The display shows "**CANCELED**" for 2 seconds and then the playback of the CD continues.

Notes:

- *Recording also can be canceled by pressing the [**FNC**], [⏏] or [**ISR**] button.*
- *When recording is canceled, the file that has been recorded incompletely is deleted.*

Erasing operation (ERASE function)

Erasing recordings made using MUSIC CATCHER is performed in the M.CATCHER mode and the following 3 erasing modes are available.

"**FILE ERASE**" : erase only one file.
"**FOLDER ERASE**" : erase the whole folder.
"**ALL ERASE**" : erase all the contents of the flash memory.

1. Press the [**FNC**] button to select the M.CATCHER mode.
2. Each time you press the [**ERASE**] button, the display switches in the following order:
   FILE ERASE ➜ FLD ERASE ➜ Normal mode

Notes:

- *When a selected file or folder is erased, the approximate recordable time is shown (the recordable time shown varies according to the set recording mode).*
- *Do not turn off the power to the unit or switch the operation mode during erasing recordings.*

●FILE ERASE

1. Press the [**FNC**] button to select the M.CATCHER mode.
2. Play back a file to be erased, and press the [**ERASE**] button to select "**FILE ERASE**".
3. While "**FILE ERASE**" is showing on the display, press and hold the [▶❚❚] button for 2 seconds or longer. The title display shows "**ERASING**" as the file currently being played back is erased.

●FOLDER ERASE

1. Press the [**FNC**] button to select the M.CATCHER mode.
2. Play back any track of the folder to be erased, and press the [**ERASE**] button to select "**FLD ERASE**".
3. While "**FLD ERASE**" is showing on the display, press and hold the [▶❚❚] button for 2 seconds or longer. The title display shows "**ERASING**" as the folder currently being played back is erased.

MUSIC CATCHER Operations

● **ALL ERASE**

1. Press the [**FNC**] button to select the M.CATCHER mode.
2. Press the [**ERASE**] button for 2 seconds or longer to select "**ALL ERASE**".
3. While "**ALL ERASE**" is showing on the display, press and hold the [▶❚❚] button for 2 seconds or longer. The title display shows "**ERASING**" as ALL ERASE is executed.

Remaining capacity of the memory

By pressing the [**REC**] button while in the M.CATCHER mode, the remaining capacity of the flash memory can be displayed for 4 seconds as an approximate recordable time in "**MM (minute): SS (second)**".

The title display shows "**AVIL. 123:45**".

Note:

- *The recordable time shown varies according to the set recording mode*

Different Pieces of Music Heard by Plural Listeners (2-ZONE function)

About the 2-ZONE function

The 2-ZONE function is a function that outputs separate sounds from the MAIN zone and SUB zone by simultaneously operating two sources in the one center unit, thereby allowing plural listeners to enjoy separate music sources.

This unit can control its internal sources (radio, CD, MP3, MC, etc.) to play back them, and further, can simultaneously play back sources from external equipment connected via CeNET (for instance, CD etc.).

The sources of the MAIN zone are played back from the speakers of the vehicle side, and those of the SUB zone are from the headphone systems (WH104/WH204).

Notes:

- *Except AUX, the MAIN and SUB zones cannot simultaneously use sources inside this unit. Also, external equipment connected via CeNET cannot simultaneously be used.*
- *The TV mode while the 2-ZONE function is tuned on is forced to change to "**VTR playback**."*
- *The ISR function cannot be operated when the 2-ZONE function is turned on.*
- *The Audio mode and ADF (Anti Distortion Filter) function cannot be set for the sources of the SUB zone.*

Setting the 2-ZONE function

The initial setting is "**OFF**".

When you have set the 2-ZONE function to "**ON**" in the initial state, the MAIN zone services for sources inside this unit and the SUB zone, for AUX. Changing a source during later use causes the latest heard source to be invoked.

Press and hold the [2] button for 1 second or longer to turn on or off. When the 2-ZONE function is turned on, "**2-ZONE**" on the display lights.

Switching sources

1. Press the [2] button to select the control zone (“**MAIN**” or “**SUB**”).
   Every time the button is pressed, the “**MAIN ZONE**” changes to the “**SUB ZONE**” or vice versa.
   “**MAIN**” or “**SUB**” on the display lights at that time, thereby indicating that the relevant zone becomes ready to operate.
2. Press the [**FNC**] button to select a source in the control zone.
   Every time the button is pressed, the followings appear in turn.

   ● **For a source group included in this unit:**

   Radio ➜ CD/MP3 ➜ M.CATCHER ➜ AUX ➜ Radio...

   ● **For a source group in external equipment:**

   AUX ➜ CD changer ➜ DVD changer ➜ TV ➜ AUX...

   ∗ The name of equipment that is not connected to this unit is not displayed.

- To change a current musical performance etc., press the button that controls the selected source ([**SCN**] button, etc.).

● **Example for source change**

Oparation	MAIN zone	SUB zone
2-ZONE turned off	Radio playback ↓	Radio playback ↓
2-ZONE turned on	Radio playback ↓	AUX ↓
2-ZONE turned off	Radio playback ↓	Radio playback ↓
Source change	External equipment (CD changer) ↓	External equipment (CD changer) ↓
2-ZONE turned on	External equipment (CD changer)	Radio playback

Adjusting the sound level for the MAIN zone

You can adjust the sound level only for the MAIN zone. To adjust the sound level for the SUB zone, adjust it in the headphone (WH104/WH204) side.

Turn the [**ROTARY**] knob to adjust the sound level for the MAIN zone.

Counterchanging the sources of the MAIN and SUB zones

You can supersede the music sources of the MAIN and SUB zones.

Press and hold the [**ISR**] button for 1 second or longer to counterchange the sources of the MAIN and SUB zones.

“**REVERSE**” is displayed for 2 seconds on the display.

Operations Common to Each Mode

Setting the clock

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**CLOCK** E".
3. Press the [▶❚❚] button.
4. Press the [◀◀] or [▶▶] button to select the hour or the minute.
5. Turn the [**ROTARY**] knob clockwise or counterclockwise to set the correct time.
   * The clock is displayed in 12-hour format.
6. Press the [▶❚❚] button to store the time into memory.
7. Press the [**T**] button to return to the previous mode.

Note:

- *You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.*

Turning the screen saver function on or off

This unit is provided with the screen saver function which allows you to show various kinds of patterns and characters in the Operation Status indication area of the display. You can turn on and off this function.

If the button operation is performed with the screen saver function on, the operation display corresponding to the button operation is shown for about 30 seconds and the display returns to the screen saver display.

* The factory default setting is "**ON**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**SCRN SVR** E".
3. Press the [▶❚❚] button.
4. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turning the [**ROTARY**] knob, the setting changes in the following order:
   OFF ➜ ON ➜ MESSAGE
5. Press the [**T**] button to return to the previous mode.

Entering MESSAGE INFORMATION

When the use of the message is selected for the screen saver setting, you can change the contents of the message.

* Up to 30 characters can be entered.
* The factory default setting is **"Welcome to Clarion"**.

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**MSG INPUT** E".
3. Press the [▶❚❚] button.
4. Press the [◀◀] or [▶▶] button to move the cursor.
5. Press the [**D**] button to select a character. Each time you press the [**D**] button, the character changes in the following orders:
   Capital letters ➜ Small letters ➜ Numbers and Symbols ➜ Umlaut ➜ Capital letters…
6. Turn the [**ROTARY**] knob to select the desired character.
7. Repeat step 4 to 6 to enter up to 30 characters for message.
8. Press and hold the [▶❚❚] button for 2 seconds or longer to store the message in memory and cancel input message mode.
   * Press the [**BND**] button can cancel the input message. Then press and hold the [▶❚❚] button for 2 seconds or longer to store the message and the message return to default setting.
9. Press the [**T**] button to return to the previous mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display ON or OFF.

* The factory default setting is "**ON**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**MESSAGE**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to set the message display "**ON**" or "**OFF**".
4. Press the [**T**] button to return to the previous mode.

Setting the method for title scroll

Set how to scroll in CD-TEXT, MP3/WMA TITLE.

∗ The factory default setting is "**ON**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**AUTO SCROLL"**.
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

   ● **ON:**

   To scroll automatically.

   ● **OFF:**

   To scroll just 1 time when the title was changed or the title key was pressed.
4. Press the [**T**] button to return to the previous mode.

Dimmer control

You can setting the dimmer control ON or OFF.

∗ The factory default setting is "**ON**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**DIMMER**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
4. Press the [**T**] button to return to the previous mode.

Adjusting the display contrast

You can adjust the display contrast to match the angle of installation of the unit.

∗ The factory default setting is "**8**". (Adjustment level: 1 to 16)

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**CONTRAST**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to adjust the contrast.
4. Press the [**T**] button to return to the previous mode.

Anti-theft indicator

The red Anti-theft indicator is a function for preventing theft. When the DCP is removed from the unit, this indicator blinks.

∗ The factory default setting is "**OFF**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**BLINK LED**".
3. Turn the [**ROTARY**] knob clockwise to set this function "**ON**" or turn it counterclockwise to switch this function "**OFF**".
4. Press the [**T**] button to return to the previous mode.

Setting the Subwoofer

∗ The factory default setting is "**SUB-W ON**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**SUB-WOOFER"**.
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".
4. Press the [**T**] button to return to the previous mode.

Setting LOW PASS FILTER

∗ The factory default setting is "**THRGH**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select **"SUB-W LPF"**.
3. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the setting. Each time you turning the [**ROTARY**] knob, the setting changes in the following order:

   THRGH ➜ 50Hz ➜ 80Hz ➜ 120Hz
4. Press the [**T**] button to return to the previous mode.

Setting the external amplifier

∗ The factory default setting is "**OFF**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button and select "**AMP CANCEL**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise and select "**ON**" or "**OFF**".

   ● **ON:**

   Use with connected AMP.

   ● **OFF:**

   Use with inside AMP.
4. Press the [**T**] button to return to the previous mode.

Selecting AUX IN sensitivity

Make the following settings to select the sensitivity when sounds from external devices connected to this unit are difficult to hear even after adjusting the volume.

∗ The factory default setting is "**MID**".

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**AUX SENS**".
3. Turn the [**ROTARY**] knob clockwise or counterclockwise as needed and select from "**LOW**", "**MID**" or "**HIGH**".
4. Press the [**T**] button to return to the previous mode.

Setting the button illumination

Press the [**COLOR**] button to select a color type. Each time you press the [**COLOR**] button, the type changes in the following order:

COLOR SCAN ➜ RED ➜ MANDARIN ➜ ORANGE ➜ AMBER ➜ YELLOW ➜ G-YELLOW ➜ LIME ➜ GREEN ➜ D-GREEN ➜ USER ➜ COLOR SCAN...

●Setting COLOR SCAN mode

As selecting "**COLOR SCAN**", the color automatically changes.

∗ The factory default setting is "**COLOR SCAN**".

∗ After 3 second the color changes to the other.

●Setting USER mode

The factory default setting is "**R>8 G>8**".

As selecting "**USER**", press and hold the [**COLOR**] button for 1 second or longer "**R>8 G>8**" appears in the display.

1. Press the [◀◀] or [▶▶] button to move the cursor.
2. Turn the [**ROTARY**] knob clockwise or counterclockwise to select from 0 to 8.
3. Press and hold the [▶❚❚] button for 2 seconds or longer to store the color in memory and cancel setting mode.

COLOR	R	G
RED	8	0
MANDARIN	8	1
ORANGE	8	2
AMBER	8	5
YELLOW	8	8
G-YELLOW	6	8
LIME	4	8
GREEN	2	8
D-GREEN	0	8
USER	8	8

Entering titles

Titles up to 10 characters long can be stored in memory and displayed for CD, CD changer and Radio/TV stations. The number of titles that can be entered for each mode are as follows.

Mode	Number of titles
CD mode	50 titles
TV mode	20 titles
Radio mode	30 titles

CD changer mode	Number of titles
DCZ625 connected	100 titles
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press the [**FNC**] button to select the mode you want to enter a title (Radio, CD, CD changer or TV).
2. Select and play a CD in the CD changer or tune in to a Radio/TV station for which you want to enter the title.
3. Press the [**D**] button and display the main.
4. Press the [**T**] button.
5. Press the [◀◀] or [▶▶] button to move the cursor.

6. Press the [**D**] button to select a character. Each time you press the [**D**] button, the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers and Symbols ➜ Umlaut ➜ Capital letters…
7. Turn the [**ROTARY**] knob to select the desired character.
8. Repeat steps 5 to 7 to enter up to 10 characters for the title.
9. Press and hold the [▶❚❚] button for 2 seconds or longer to store the title into memory and cancel title input mode.

Clearing titles

1. Select and play a CD in the CD changer or tune in to a Radio/TV station for which you want to clear the title.
2. Press the [**D**] button and display the main.
3. Press the [**T**] button.
   The display switches to the title input display.
4. Press the [**BND**] button.
5. Press and hold the [▶❚❚] button for 2 seconds or longer to clear the title and cancel title input mode.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

* This function is not compatible with all cellular telephones Contact your local authorized Clarion dealer for information on proper installation and compatibility.

AUX function

This system has an external input jack so you can listen to sounds and music from external devices connected to this unit.

English

8. OPERATIONS OF ACCESSORIES

CD Changer Operations

CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all CD changer functions. This unit can control a total of 2 changers.

Press the [**FNC**] button and select the CD changer mode to start play. If 2 CD changers are connected, press the [**FNC**] button to select the CD changer for play.

∗ If "**NO MAGAZINE**" appears in the display, insert the magazine into the CD changer. "**DISC CHECK**" appears in the display while the player loads (checks) the magazine.

∗ If "**NO DISC**" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

Note:

• Some CDs recorded in CD-R/CD-RW mode may not be usable.

⚠CAUTION

CD-ROM discs cannot be played from every CD changer, it's depended on the model.

Pausing play

1. Press the [▶❚❚] button to pause play. "**PAUSE**" appears in the display.
2. To resume play, press the [▶❚❚] button again.

Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

∗ Title data for CD-text CDs can be displayed with this unit only when it is connected to CDC655Tz.

● When connected to DCZ625 or CDC1255z.

Press the [**D**] button to display the title.

● When connected to CDC655Tz

1. Press the [**D**] button to display the title.
2. Each time you press and hold the [**D**] button for 1 second or longer, the title display changes in the following order:

   User title (disc) ➜ CD-text title (disc) ➜ Artist name ➜ CD-text title (track) ➜ User title (disc)…

Notes:

*• If the CD playing is not a CD-text CD or no user title has been input, "**NO TITLE**" appears in the display.*

*• If a CD-text CD is not input its disc title or a track title, "**NO TITLE**" appears in the display.*

Procedure to scroll a title

Set "**SCROLL**" to "**ON**" or "**OFF**".

(The factory default setting is "**ON**". Refer to the subsection "**Turning the screen saver function on or off**" in section "**Operation common to each mode**".)

● When set to "ON"

The title is automatically kept scrolling.

● When set to "OFF"

To scroll just 1 time when the title was changed or the [**T**] button was pressed.

Selecting a CD

Press the [**UP**] or [**DN**] button to select the desired disc.

∗ If a CD is not loaded in a slot of magazine, pressing the [**UP**] or [**DN**] button can not work.

Selecting a track

● Track-up

1. Press the [▶▶] button to move ahead to the beginning of the next track.
2. Each time you press the [▶▶] button, the track advances ahead to the beginning of the next track.

● Track-down

1. Press the [◀◀] button to move back to the beginning of the current track.
2. Press the [◀◀] button twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● Fast-forward

Press and hold the [▶▶] button for 1 second or longer.

● Fast-backward

Press and hold the [◀◀] button for 1 second or longer.

Scan play

Scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is cancelled.

* The scan play is useful when you want to select a desired track.

1. Press the [**SCN**] button to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press the [**SCN**] button again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

Disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is cancelled.

* Disc scan play is useful when you want to select a desired CD.

1. Press and hold the [**SCN**] button for 1 second or longer. "**DISC**" and "**SCN**" light in the display and disc scan play starts.
2. To cancel disc scan play, press the [**SCN**] button again. "**DISC**" and "**SCN**" go off from the display and the current track continues to play.

Repeat play

Repeat play continuously plays the current track. This function continues automatically until it is cancelled.

1. Press the [**RPT**] button. "**RPT**" lights in the display and the current track is repeated.
2. To cancel repeat play, press the [**RPT**] button again. "**RPT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is cancelled.

1. Press and hold the [**RPT**] button for 1 second or longer. "**DISC**" and "**RPT**" light in the display and disc repeat play starts.
2. To cancel disc repeat play, press the [**RPT**] button again. "**DISC**" and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

Random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is cancelled.

1. Press the [**RDM**] button. "**RDM**" lights in the display and random play begins.
2. To cancel random play, press the [**RDM**] button again. "**RDM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is cancelled.

1. Press and hold the [**RDM**] button for 1 second or longer. "**DISC**" and "**RDM**" light in the display and disc random play starts.
2. To cancel disc random play, press the [**RDM**] button again. "**DISC**" and "**RDM**" go off from the display and normal play resumes from the current track.

TV Operations

TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch TV requires a TV tuner and monitor.

Watching a TV

1. Press the [**FNC**] button and select the TV mode.
2. Press the [**BND**] button to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
3. Press the [◀◀] or [▶▶] button to tune in the desired TV station.

Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12 V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press the [▶❚❚] button to select VTR.
2. To return to the TV broadcast, press the [▶❚❚] button.

Tuning

There are 3 types of tuning mode available, Seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
   * If "**MANU**" is lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press the [◀◀] or [▶▶] button to automatically seek a station. Press the [▶▶] button to automatically tune up the frequency band to the next available TV station; press the [◀◀] button to automatically tune down.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In the quick tuning mode, you can quickly tune the desired frequency.

1. Press the [**BND**] button and select the desired band (TV1 or TV2).
   * If "**MANU**" is not lit in the display, press and hold the [**BND**] button for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold the [◀◀] or [▶▶] button for 1 second or longer to tune in a station.

● **Step tuning:**

Press the [◀◀] or [▶▶] button to manually tune in a station.

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
2. To recall a stored TV station, press the desired [**DIRECT**] button to select that station.
   * Press and hold one of the [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of [**DIRECT**] buttons for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store selects 6 TV stations automatically and stores each one into preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

1. Press the [**BND**] button and select the desired TV band (TV1 or TV2).
2. Press and hold the [**P**/**A**] button for 2 seconds or longer. The stations with good reception are stored automatically to the preset channels.

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for a desired TV station in memory.

1. Press the [**P**/**A**] button.
2. When the desired station is found, press the [**P**/**A**] button again to remain tuned to that station.

Note:

- *Do not press and hold the [**P**/**A**] button for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.*

Setting the TV area

When you select the TV area (TV reception area), the TV tuner area setting changes.

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**TV AREA**".
3. Press the [▶❚❚] button.
4. Turn the [**ROTARY**] knob clockwise or counterclockwise to select the reception area.
5. Press the [▶❚❚] button.
6. Press the [**T**] button to return to the previous mode.

The above operations are required when a TV tuner other than TTX7501z is connected.

Setting the TV diver

You can change the reception setting for the TV antenna connected to the TV tuner.

1. Press and hold the [**T**] button for 1 second or longer to switch to the adjustment selection display.
2. Press the [◀◀] or [▶▶] button to select "**TV DIVER**".
3. Turn the [**ROTARY**] knob clockwise to set to "**ON**" or counterclockwise to set to "**OFF**".

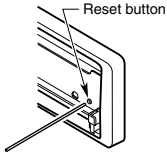
   ● **ON:**

   Sets the diver setting to ON.

   ● **OFF:**

   Sets the diver setting to OFF.
4. Press the [**T**] button to return to the previous mode.

9. IN CASE OF DIFFICULTY

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the [**RELEASE**] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
		DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
CD/MP3/WMA	No sound heard.	There is a disc other than a compact disc or foreign matter already in place.	With the sloping console open, press and hold the [⏏] button for 3 seconds or longer. The foreign matter is forcibly ejected.
		MP3/WMA files are absent in a disc.	Write MP3/WMA files onto the disc properly.
		Files are not recognized as an MP3/WMA file.	Use MP3/WMA files encoded properly.
		File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
		Disc is heavily scratched or warped.	Replace with a disc with no scratches.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.

	Problem	Cause	Measure
CD/MP3/WMA	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
	Wrong filename	File system is not correct.	Use ISO9660 level 1, 2 or JOLIET or Romeo file system.
	Play list play is not performed.	File name or extension is not correct.	Use alphanumeric/ASCII characters for MP3/WMA file name. Use "**.M3U**" for the file extension of a play list.

10. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD/MP3/WMA	**ERROR 2**	A DISC is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
M.CATCHER	**ERROR 7**	The format of the flash memory is damaged.	Execute ALL ERASE on the flash memory, and the problem is solved.
	ERROR 8	There is a failure with the flash memory.	Turn POWER/ACC off and then turn it on again, and the problem is solved. If not solved, executed ALL ERASE on the flash memory, and the problem is solved.
	ERROR 9	An error during recording, scratch on the disc, or error due to sound skips	Turn POWER/ACC off and then turn it on again, or eject the CD. The problem is solved.
General	**AMP GUARD**	The speaker protection circuit is operating. During this operation, if any volume operation is performed, the display shows "**AMP GUARD**".	1. Turn down sound volume. Function can also be restored by turning the power off and on again. (Speaker volume is reduced automatically when the speaker protection circuit operates). 2. If the sound is muted again, consult our service department.
CD changer	**ERROR 2**	A DISC inside the CD changer is not loaded.	This is a failure of CD changer's mechanism and consult your store of purchase.
	ERROR 3	A DISC inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A DISC inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.

	Error Display	Cause	Measure
DVD changer	**ERROR 2**	A DISC inside the DVD changer cannot be played.	This is a failure of DVD mechanism and consult your store of purchase.
	ERROR 3	A DISC cannot be played due to scratches, etc.	Retry or replace with a non-scratched, non-warped-disc.
	ERROR 6	A DISC inside the DVD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly
	ERROR P	Parental level error	Set the correct Parental level.
	ERROR R	Region code error	Eject the disc and replace correct region code disc.

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

English

11. SPECIFICATIONS

FM Tuner

Frequency Range:
87.0 MHz to 108.0 MHz

Usable Sensitivity:
9 dBf

50dB Quieting Sensitivity:
15 dBf

Alternate Channel Selectivity:
70 dB

Stereo Separation (1 kHz):
35 dB

Frequency Response (±3 dB):
30 Hz to 15 kHz

AM Tuner

Frequency Range:
531 kHz to 1629 kHz

Usable Sensitivity:
25 µV

CD Player

System:
Compact disc digital audio system

Usable Discs:
Compact disc

Frequency Response (±1 dB):
5 Hz to 20 kHz

Signal to Noise Ratio (1 kHz):
100 dB

Dynamic Range (1 kHz):
95 dB

Harmonic Distortion:
0.01%

Channel Separation (1 kHz):
85 dB

MC mode

HQ:
Approximately 265 minutes, 66 tracks
(4 minutes for each)

LP:
Approximately 353 minutes, 88 tracks
(4 minutes for each)

Audio

Maximum Power Output:
212 W (53 W × 4 ch)

Continuous Average Power Output:
18 W × 4, into 4 Ω, 20 Hz to 20 kHz, 1%THD

Bass Control Action (50 Hz/80 Hz/120 Hz):
+16 dB, -12dB

Treble Control Action (8 kHz/12 kHz):
±12 dB

Line Output Level (CD 1 kHz):
1.8 V

General

Power Supply Voltage:
14.4 V DC (10.8 to 15.6 V allowable), negative ground

Current Consumption:
Less than 15 A, 3A

Speaker Impedance:
4 Ω (4 Ω to 8 Ω allowable)

Weight / Source unit:
3.52 lb. (1.6 kg)

Weight / Remote control unit:
2.82 oz. (80 g) (including battery)

Dimensions / Source unit:
7" (Width) × 2" (Height) × 6-1/8" (Depth)
[178 (W) × 50 (H) × 155 (D) mm]

Dimensions / Remote control unit:
1-3/4" (Width) × 4-5/16" (Height) × 1-1/8" (Depth)
[44 (W) × 110 (H) × 27 (D) mm]

Notes:

• Specifications and design are subject to change without notice for further improvement.